

LIST OF FIGURES

	Page
1.1	The location of project study area in the Neuse River basin in North Carolina.
1.2	Land use in the Neuse study area as determined by the EPA's Neuse River Land Use/Land Cover data.
1.3	Map of 20 study sites
1.4	Boxplot of the drainage area of the agricultural (A) and forested (F) sites used in the study.
2.1	A diagram of a sampling site, which included the 300-meter reaches of stream immediately upstream and downstream of the road crossing.
2.2	Overall median percentage of <i>Elliptio complanata</i> occurring in a given cross-section.
3.1	Hemolymph collection from the anterior adductor muscle of an <i>Elliptio complanata</i> .
3.2	Recommended needle alignment for hemolymph collection from <i>Elliptio complanata</i> .
3.3	Track left by a 25 g needle in the transected adductor muscle of an <i>Elliptio complanata</i> .
3.4	<i>Elliptio complanata</i> hermaphrodite with predominantly spermatogenic, and a locus of oogenic, gonadal tissue. (H&E, magnification 10x18)
3.5	Higher magnification of spermatogenic (left side and center) and oogenic (right side) tissues from the gonad of an <i>Elliptio complanata</i> (H&E, 40x18).
3.6	Encysted cercaria of a trematode in foot tissue of an <i>Elliptio complanata</i> (H&E, 40x18).
3.7	Cercaria of a trematode parasite (right center) in the digestive gland of an <i>Elliptio complanata</i> (H&E, 10x18)
4.1	Concentrations of PAH in mussel tissue.....11
4.2	Regression of upstream versus downstream PAH Priority Pollutant PAH and Sum of 48 PAH.....12
4.3	Regression of upstream versus downstream PAH Petrogenic PAH and Pyrogenic PAH.....13
4.4	Relative abundance of PAH in mussels normalized to C1-phenanthrene (P1) for Site 200 (A) and Site 50 (B).....14
4.5	Concentrations of chemicals in mussels expressed as ratio of downstream to upstream.....15